

DIAMOND

Smart Lab Solutions



ProLyte®

The World's Most Popular Electrolyte Analyzer



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Sample

Whole Blood, Serum, Plasma or Urine

Sample Size

100 µl Whole Blood, Serum or Plasma
400 µl diluted (1:10) Urine

Number of Parameters

3 (Simultaneously)

Detection Range

Blood Na⁺: 45-205 mmol/L
K⁺: 1.5-11 mmol/L
Cl⁻: 45-205 mmol/L
Li⁺: 0.15-5.0 mmol/L

Urine Na⁺: 30-1020 mmol/L
K⁺: 20-505 mmol/L
Cl⁻: 25-505 mmol/L

Reproducibility

Typical Within Run (n=30)

Blood, Serum, Plasma

Na⁺: CV ≤ 1% (115-160mmol/L)
K⁺: CV ≤ 2% (2.5-6 mmol/L)
Cl⁻: CV ≤ 2% (65-120 mmol/L)
Li⁺: SD ≤ 0.03 (0.25-2.0 mmol/L)

Urine

Na⁺: CV ≤ 5% (60-280 mmol/L)
K⁺: CV ≤ 5% (30-170 mmol/L)
Cl⁻: CV ≤ 5% (80-230 mmol/L)

Display Resolution

Na⁺: 1 mmol/L
K⁺: 0.1 mmol/L
Cl⁻: 1 mmol/L
Li⁺: 0.01 mmol/L

Analysis Time

57 sec (Blood)
93 sec (Urine)



Data Storage

1000 Patient Results
500 Level 1 QC Results
500 Level 2 QC Results
500 Level 3 QC Results

Calibration

2 Point every 4 hours
On Demand
1 Point after every Measurement

User Input

Keypad, External Keyboard
External Barcode Scanner (optional)

Output

Graphic backlit display
Graphic 40 column printer
RS232 LIS Communication

Ambient Conditions

15-32°C (60-90°F), < 85% humidity

Languages

English, Chinese, French, German, Italian, Korean
Japanese, Portuguese, Russian, Spanish, Polish

Power

100-240 ~ VAC 50/60 Hz, 1.6 A

Size & Weight

9.5" (24cm) W x 16.5" (42cm) H x
8.0" (20cm) D, 10.5 lbs (4.5kgs)

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